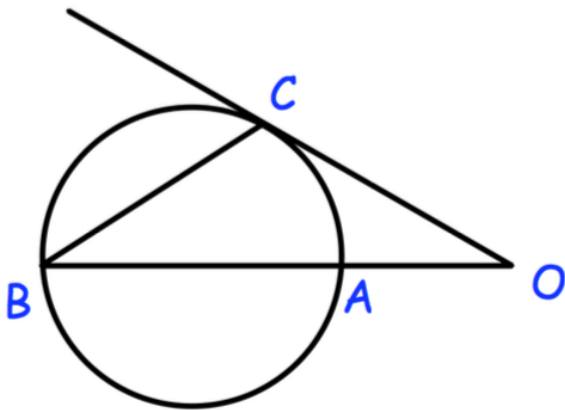


10th September

Corbettmaths

$$f(x) = x^2 - 7 \quad \text{for all values of } x$$

What is the range of $f(x)$?



OAB is a straight line and OC is a tangent to the circle.

Prove OBC and OAC are similar.

A curve has equation $y = 2x^2 + 5x - 7$

At point Q on the curve, the tangent is parallel to the line $y = 2 - x$

Work out the coordinates of Q.

The n th term of a sequence is

$$n^2 - n + 19$$

The difference between two consecutive terms is 34.

Work out the two terms